

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 1

Application No.	10/642,980
Filing Date	August 18, 2003
First Named Inventor	Lon E. Bell
Art Unit	3744
Examiner	Unknown
Attorney Docket No.	BSST.009CP1

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
ADF	1	4,297,841	11-03-81	Cheng	
ADF	2	6,367,261 B1	04-09-02	Marshall et al.	
ADF	3	2003/0094265 A1	05-22-03	Chu et al.	
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## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
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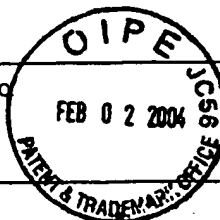
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Examiner Signature /Anthony Fick/ ADF Date Considered 12/21/2006

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. BSST.009CP1	APPLICATION NO. 10/642,980
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Lon E. Bell	
		FILING DATE August 18, 2003	GROUP 3744



U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
ADF	1	3,006,979	10-31-61	Rich			
	2	3,126,116	04-24-64	Clinehens			
	3	3,635,037	01-18-72	Hubert			
	4	3,681,929	08-08-72	Schering			
	5	3,779,814	12-18-73	Miles et al.			
	6	4,065,936	01-03-78	Fenton et al.			
	7	4,281,516	08-04-81	Berthet et al.			
	8	4,494,380	01-22-85	Cross			
	9	4,730,459	03-15-88	Schlicklin et al.			
	10	4,731,338	03-15-88	Ralston et al.			
	11	4,989,626	02-05-91	Takaga et al.			
	12	5,092,129	03-03-92	Bayes et al.			
	13	5,097,829	03-24-92	Quisenberry			
	14	5,228,923	07-20-93	Hed			
	15	5,232,516	08-03-93	Hed			
	16	5,429,680	07-04-95	Fuschetti			
	17	5,584,183	12-17-96	Wright et al.			
	18	5,592,363	01-07-97	Atarashi et al.			
	19	5,605,047	02-25-97	Park et al.			
	20	5,682,748	11-04-97	De Viilbiss et al.			
	21	5,802,856	09-08-98	Schaper et al.			
	22	5,860,472	01-19-99	Batchelder			
	23	5,867,990	02-09-99	Ghoshal			
	24	5,900,071	05-04-99	Harman			
	25	5,921,088	07-13-99	Imaizumi et al.			
	26	5,966,941	10-19-99	Ghoshal			
✓	27	5,987,890	11-23-99	Chiu et al.			

EXAMINER	/Anthony Fick/ ADF	DATE CONSIDERED	12/21/2006
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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. BSST.009CP1	APPLICATION NO. 10/842,980
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U.S. PATENT DOCUMENTS								
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ADF	28	6,082,445	07-04-00	Dugan				
	29	6,084,172	07-04-00	Kishi et al.				
	30	6,096,966	08-01-00	Nishimoto et al.				
	31	6,319,744	11-20-01	Hoon et al.				
	32	6,334,311	01-01-02	Kim'et al.				
	33	6,346,668	02-12-02	McGrew				
	34	6,347,521	02-19-02	Kadotani et al.				
	35	6,401,462	06-11-02	Bielinski				
	36	6,446,442	09-10-02	Bathelor et al.				
	37	6,477,844	11-12-02	Ohkubo et al.				
	38	6,481,213	11-19-02	Carr et al.				
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	40	6,510,696	01-28-03	Guttman et al.				
	41	6,650,968	05-13-03	Ko				

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
ADF	42	JP 4-165234	06-11-92	Japan (with English translation)				
ADF	43	JP 56-18231	02-20-81	Japan (with English translation)				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
ADF	44	International Search Report for PCT/US 02/06285 dated 05-11-02.						
ADF	45	International Search Report for PCT/US 02/03654 dated 05-20-02.						
ADF	46	International Search Report for PCT/US 02/03659 dated 07-09-02.						
ADF	47	International Search Report for PCT/US 02/25233 dated 09-24-02.						
ADF	48	International Search Report for PCT/US 03/17834 dated 07-29-03.						

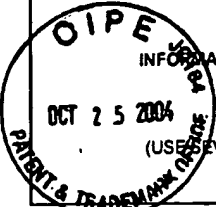
EXAMINER	/Anthony Fick/ ADF	DATE CONSIDERED	12/21/2006
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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>FEB 02 2004</b> BSST.009CP	APPLICATION NO. 10/642,980
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Lon E. Bell	
		FILING DATE August 18, 2003	GROUP 3744

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
ADF	49	A New Concept for Improving Thermoelectric Heat Pump Efficiency, R.J. Buist, J.W. Fenton and J.S. Lee, Borg-Warner Thermoelectrics Wolf and Algonquin Road
	50	Tada, Shigeru, et al., A New Concept of Porous thermoelectric Module Using a Reciprocating Flow for Cooling/Heating System (Numerical Analysis for Heating System), 16 <sup>th</sup> International Conference on Thermoelectrics (1997)
	51	Goldsmid, H.J., <u>Electronic Refrigeration</u> , Pion Ltd., 207 Brondesbury Park, London (1986)
	52	Angrist, Stanley W., <u>Direct Energy Conversion</u> , 32 Ed. Ally & Bacon (1976)
	53	Miner, A., Majumdar, A., and U. Ghoshal, Thermo-Electro-Mechanical Refrigeration Based on Transient Thermoelectric Effects, Applied Physics letters, Vol. 75, pp. 1176-1178 (1999)
	54	Buist, R. and Lau, P., Theoretical Analysis of Thermoelectric Cooling Performance Enhancement Via Thermal and Electrical Pulsing, Journal of Thermoelectricity, No. 4, 1996.
	55	Copending U.S. Application No. 09/844,818 filed on April 27, 2001 (Atty No. 001A) and pending claims
	56	Copending U.S. Application No. 10/227,398 filed on August 23, 2002 (Atty No. 001CP1) and pending claims
	57	Copending U.S. Application No. 09/860,725 filed on May 18, 2001 (Atty No. 002A) and pending claims
	58	Copending U.S. Application No. 10/632,235 filed on July 31, 2003 (Atty No. 002C1) and pending claims
	59	Copending U.S. Application No. 09/918,999 filed on July 31, 2001 (Atty No. 002CP1) and pending claims
	60	Copending U.S. Application No. 10/215,613 filed on August 7, 2002 (Atty No. 004A) and pending claims
	61	Copending U.S. Application No. 09/987,232 filed on November 6, 2001 (Atty No. 006A) and pending claims
	62	Copending U.S. Application No. 10/074,543 filed on February 11, 2002 (Atty No. 008A) and pending claims
V	63	Copending U.S. Application No. 10/164,656 filed on June 6, 2002 (Atty No. 009A) and pending claims

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. BSST.009CP1	APPLICATION NO. 10/642,980
	APPLICANT Lon E. Bell	
	FILING DATE August 18, 2003	GROUP 3744

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
ADF	1	2,027,534	01/14/36	Ingersoll			
	2	2,944,404	07/12/60	Fritts			
	3	2,949,014	08/16/60	Belton, Jr. et al.			
	4	3,004,393	10/17/61	Alsing			
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	6	3,129,116	04/14/64	Corry			
	7	3,178,895	04/20/65	Mole et al.			
	8	3,213,630	10/26/65	Mole			
	9	3,527,621	09/08/70	Newton			
	10	3,626,704	12/14/71	Coe, Jr.			
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	12	3,817,043	06/18/74	Zoleta			
	13	4,038,831	08/02/77	Gaudel et al.			
	14	4,420,940	12/20/83	Buffet			
	15	4,499,329	02/12/85	Benicourt et al.			
	16	4,905,475	03/06/90	Tuomi			
	17	5,038,569	08/13/91	Shirota et al.			
	18	5,193,347	03/16/93	Apisdorf			
	19	5,385,020	01/31/95	Gwilliam et al.			
	20	5,499,504	03/19/96	Mill et al.			
	21	6,000,225	12/14/99	Ghoshal			
	22	6,282,907	08/04/01	Ghoshal			
	23	6,366,832	04/02/02	Lomonaco et al.			
	24	6,412,287	07/02/02	Hughes et al.			
	25	6,530,842	03/11/03	Wells et al.			
	26	6,560,968	05/13/03	Ko			

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ADF	27	RE 36,242	06/29/99	Apisdorf			
	28	RE 38,128 E	06/03/03	Gallup et al.			
	29	2002/0014261 A1	02/07/02	Caillat et al.			
	30	2002/0139123 A1	10/03/02	Bell			
	31	2002/0148234 A1	10/17/02	Bell			
	32	2003/0079770 A1	05/01/03	Bell			
	33	10/405,001	03/31/03	Co-pending Application; Atty. Docket No. BSST.001C1			
	34	10/642,773	08/12/03	Co-pending Application; Atty. Docket No. BSST.001CP2			
	35	10/632,235	07/31/03	Co-pending Application; Atty. Docket No. BSST.002C1			
↓	36	10/897,292	07/22/04	Co-pending Application; Atty. Docket No. BSST.006C1			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
ADF	37	PCT/US02/03772	07/11/02	PCT Int'l. Search Report				
ADF	38	JP 5-219765	08/27/93	Japan				
ADF	39	GB 2267338	12/01/93	Great Britain				
ADF	40	SE 329 870	10/26/70	Sweden				
ADF	41	SE 337 227	05/25/71	Sweden				
ADF	42	WO 02/065030 A1	08/22/02	WIPO				

EXAMINER /Anthony Fick/ ADF	DATE CONSIDERED 12/21/2006
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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. BSST.009CP1	APPLICATION NO. 10/642,980
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		FILING DATE August 18, 2003	GROUP 3744

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
ADF	43	Bell, L.E., "Use of Thermal Isolation to Improve Thermoelectric System Operating Efficiency," Proc. 21 <sup>st</sup> Int'l Conf. on Thermoelectrics, Long Beach, CA (August 2002).
ADF	44	Bell, L.E., "Increased Thermoelectric System Thermodynamic Efficiency by Use of Convective Heat Transport," Proc. 21 <sup>st</sup> Int'l Conf. on Thermoelectrics, Long Beach, CA (August 2002).
ADF	45	Ikoma, K., et al., "Thermoelectric Module and Generator for Gasoline Engine Vehicles," 17 <sup>th</sup> Int'l Conf. on Thermoelectrics, Nagoya, Japan, pp. 464-467 (1998).

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EXAMINER      /Anthony Fick/ <i>ADF</i>	DATE CONSIDERED      12/21/2006
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Application No. 10/642,980  
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 Art Unit 3744  
 Examiner Alan D. Diamond  
 Attorney Docket No. BSST.009CP1

Multiple sheets used when necessary)

SHEET 1 OF 1

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
ADF		3,607,444	09/21/197	DeBucs	
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## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
ADF		PCT/US2004/026757 ISR dated 04/07/2005	03/03/2005	BSST LLC		
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
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Examiner Signature /Anthony Fick/ ADF Date Considered 12/21/2006

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Examiner Initials	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
ADF		PCT/US03/24899 ISR dated 04/05/2004	08/07/2003	BSST, LLC		
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